Robert C. Colwell, Reg. No. 27,431

(650) 326-2400

Applicant: Yuichi Yagawa

Title: Database Query Operations Using Storage Networks

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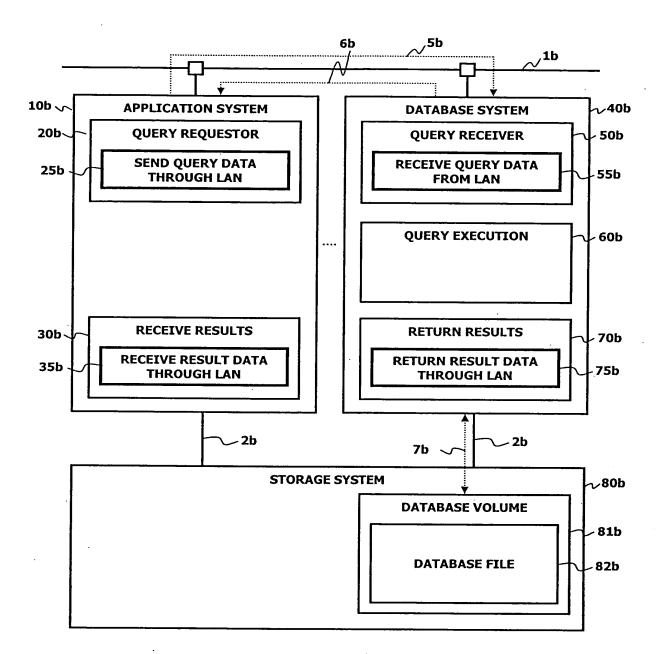


Figure 1 (Prior Art)

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Title: Database Query Operations Using Storage Networks

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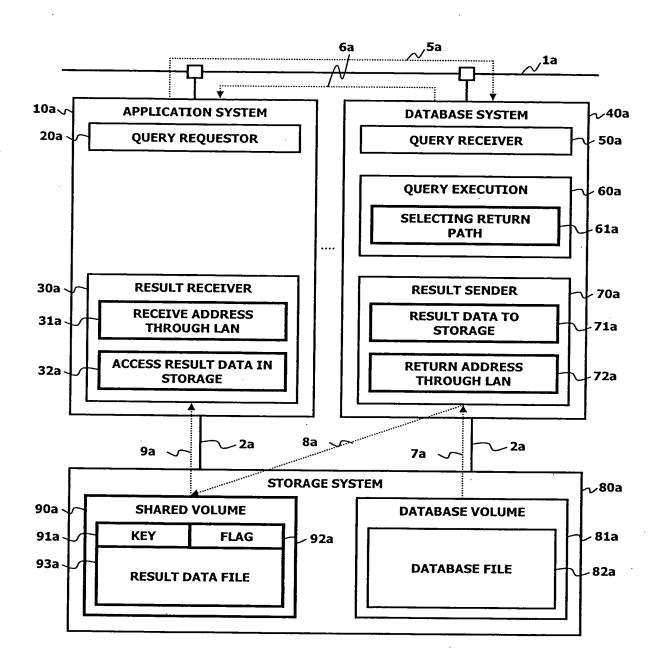


Figure 2

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Sheet 3 f 13

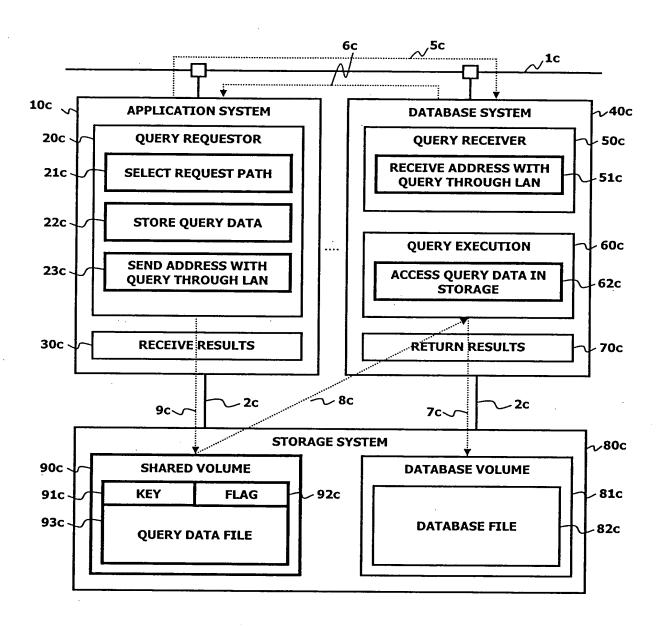


Figure 3

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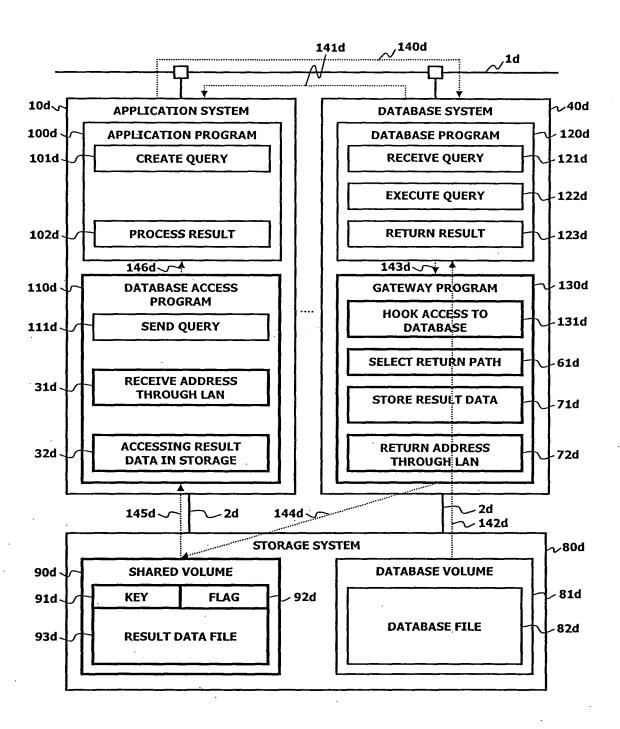


Figure 4

Applicant: Yuichi Yagawa

Title: Database Query Operations Using Storage Networks

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,140e 141e ~40e 10e√ **APPLICATION SYSTEM DATABASE SYSTEM** 100e~ **APPLICATION PROGRAM** 120e **DATABASE PROGRAM** 101e **CREATE QUERY RECEIVE QUERY** 121e **EXECUTE QUERY** 122e · 102e **PROCESS RESULT RETURN RESULT** 123e 143e √ 146e~ 130e 110e **DATABASE ACCESS GATEWAY PROGRAM PROGRAM** HOOK ACCESS TO 131e SELECT REQUEST PATH DATABASE 21e-RECEIVE ADDRESS WITN 51e 22e -STORE QUERY DATA QUERY THROUGH LAN **SEND ADDRESS WITH** ACCESS QUERY DATA IN 23e 62e **QUERY THROUGH LAN** STORAGE 144e 🔑 145e _/ - 2e ~ 142e STORAGE SYSTEM ~80e **SHARED VOLUME** DATABASE VOLUME 90e -/81e - 92e 91e-**KEY FLAG** DATABASE FILE -82e 93e -**RESULT DATA FILE**

Figure 5

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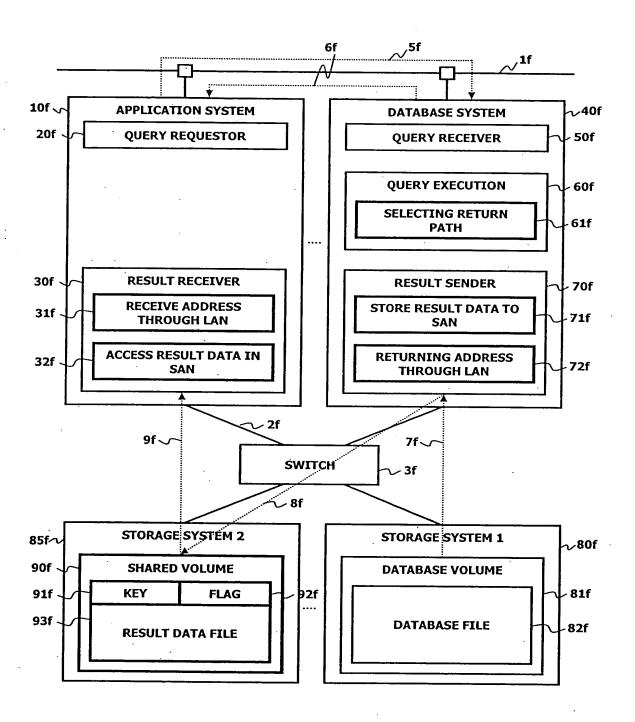
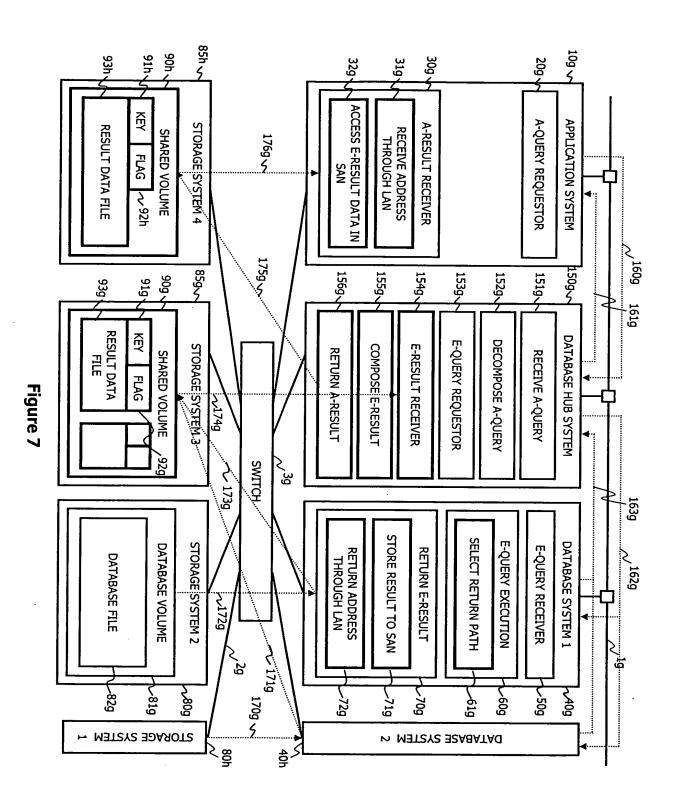


Figure 6

Titl: Database Query Operations Using Storage Networks

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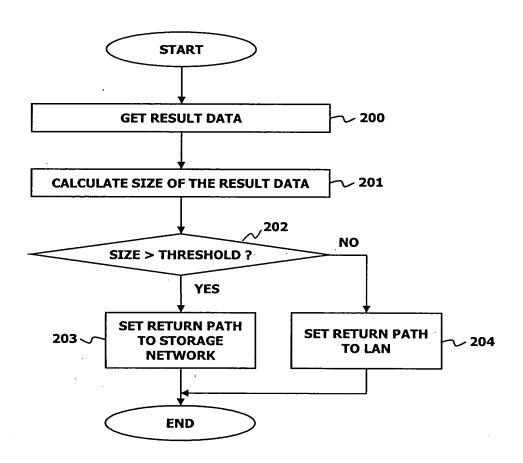


Figure 8

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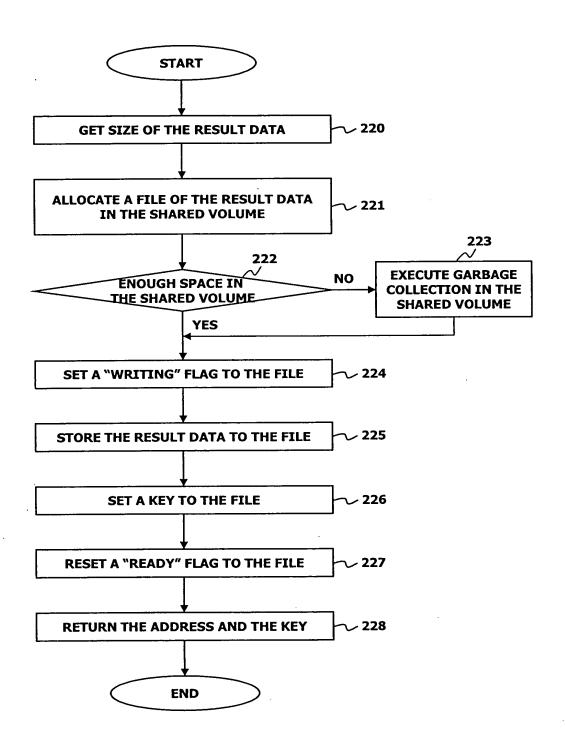


Figure 9

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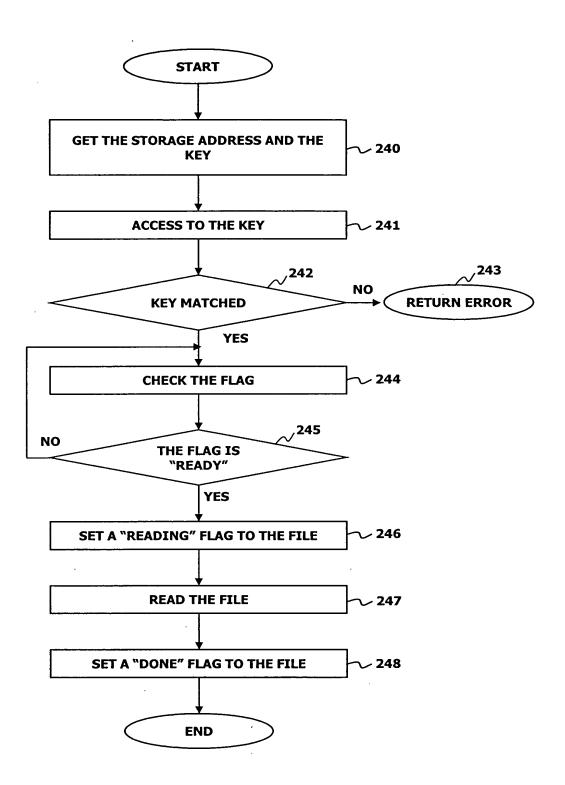


Figure 10

Title: Database Query Operations Using Storag N tworks

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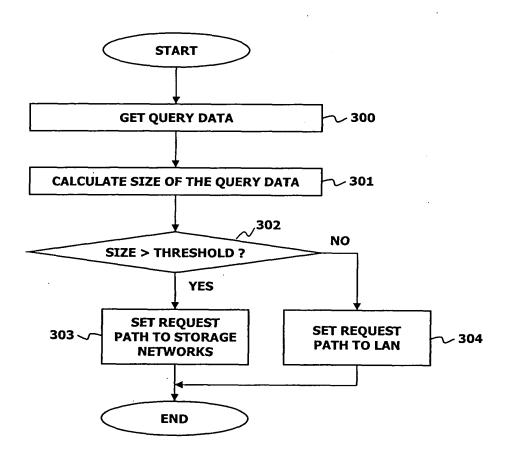


Figure 11

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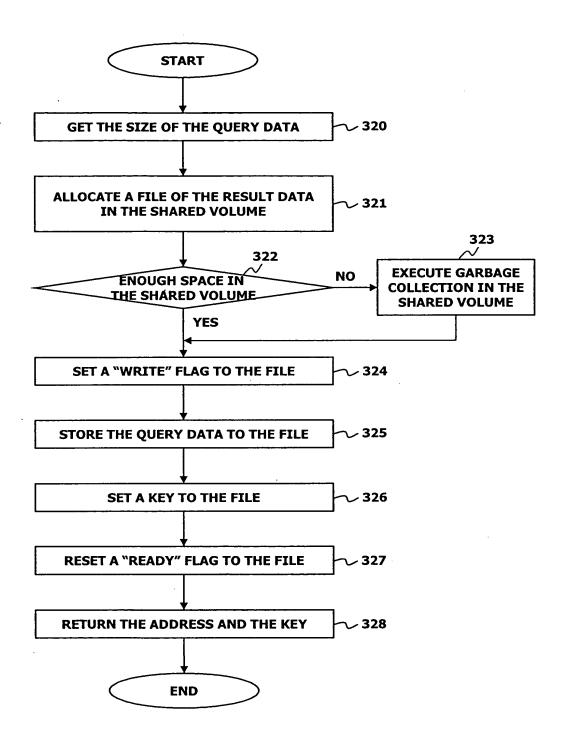


Figure 12

Title: Database Query Operations Using Storage Networks

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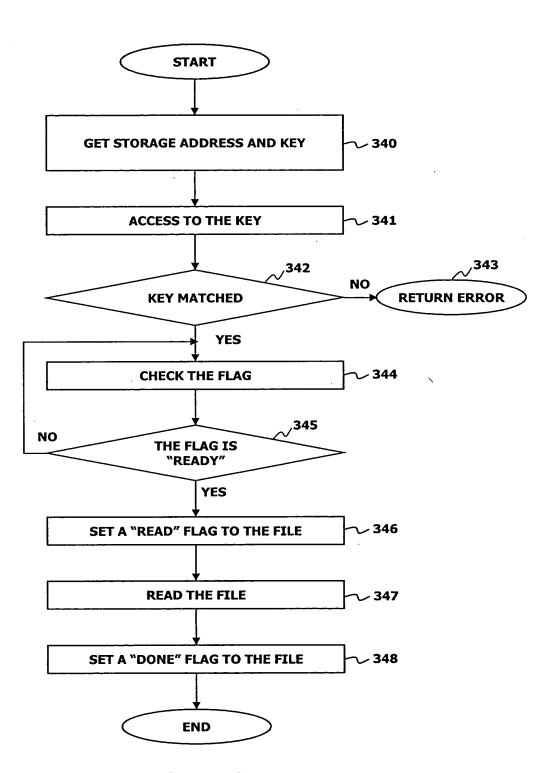


Figure 13